



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-12/516b/Cube/2017-18

08.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Sample ID	: Road Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 08.02.2018



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	11.01.2018	08.02.2018	8.213	498.9	22.17
2	11.01.2018	08.02.2018	8.318	520.6	23.14
3	11.01.2018	08.02.2018	8.435	535.5	23.80

*Information is furnished by the Customer/Representative.

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ಜಾಗರಣೆ, ಬದವೇಶ್ವರನಗರ
ಬೆಂಗಳೂರು

(Signature)
VIDYARANI P.K.
Technical Manager



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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	11.01.2018	08.02.2018	8.418	480.3	21.35
2	11.01.2018	08.02.2018	8.287	505.6	22.47
3	11.01.2018	08.02.2018	8.325	515.3	22.90

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 ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ
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 Technical Manager

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09.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
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Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 09.02.2018



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.01.2018	09.02.2018	8.108	495.6	22.03
2	12.01.2018	09.02.2018	8.250	512.3	22.77
3	12.01.2018	09.02.2018	8.378	522.5	23.22

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Compressive Strength as on	: 28 th day
Sample Received on	: 09.02.2018



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.01.2018	09.02.2018	8.267	485.5	21.58
2	12.01.2018	09.02.2018	8.345	515.3	22.90
3	12.01.2018	09.02.2018	8.485	523.8	23.28

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 ಬಿ.ದಾಸರಾಜ್, ಉಪ-ವಿಭಾಗ
 ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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09.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
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* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 09.02.2018



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.01.2018	09.02.2018	8.117	482.5	21.44
2	12.01.2018	09.02.2018	8.210	515.6	22.92
3	12.01.2018	09.02.2018	8.390	522.8	23.24

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-12/516b/Pre Slab/2017-18

20.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	14.01.2018
Date of Testing	:	20.01.2018



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	83.00	0.408	2503.53	1.66	0.963	30.00	15.28	16.50	17.13	21.41
2	50.00	80.00	0.395	2514.65	1.60	0.957	32.25	16.42	17.74	16.97	21.22
3	50.00	81.00	0.412	2590.49	1.62	0.959	33.65	17.14	18.51	17.75	22.19

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S. Sridhar
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